

Abstract

- 5 The present invention describes a Pd-catalyst which further contains La, Ti, Nb, K or Si. The Pd-catalyst has a high ethylene selectivity even after a low temperature reduction in the selective hydrogenation of acetylene to ethylene. The invention also relates to the production of the catalyst. A catalyst of the invention consists essentially of 0.05 to 2.0% by weight, based on the supported catalyst, of palladium and one or
- 10 two metals chosen from the group consisting of lanthanum, niobium, titanium, potassium and silicon. The catalyst can be prepared by the following procedure.
- (1) Impregnating a support in aqueous solution of tetra amine palladium hydroxide, followed by drying and calcination;
 - 15 (2) The second and, if necessary, a third metal is impregnated by impregnating the Pd-catalyst in the solution of the metal precursor followed by drying and calcination;
 - (3) The catalyst according to step (2) is then reduced in hydrogen at 200°C to 600°C for 1 to 5 hours.

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